

AMENDMENT TO THE CLAIMS

The following is a detailed listing of all claims that are, or were, in the Application.

1-14. (Canceled)

15. (Currently amended) A method implemented by an apparatus for processing user history data, the method comprising:

storing a hierarchical data structure for describing user history, the hierarchical data structure including a user information element and first and second user action history parts as respective first and second structural elements at the same level of the hierarchical data structure, the user information element including information to identify a user and the first and second user action history parts including respective first and second lists of user action items for describing respective first and second aspects of the user's multimedia consumption, wherein each user action item has a respective program identifier including a content reference identifier that identifies the consumed multimedia content and enables access to content related metadata that is not provided in the user history, and wherein the first user action history part has a first data protection attribute and the second user action history part has a second data protection attribute to specify whether information is protected in the first user action history part or in the second user action history part, respectively;

recording, in the first user action history part, a first user action item corresponding to a first user action by the user, wherein the first user action is related to the first aspect of the user's multimedia consumption of a first piece of multimedia content having a ~~standardized~~ first content reference identifier that identifies the first piece of multimedia content independent of its location, wherein recording the first user action item includes assigning a first program identifier and a user action type to the first user action item, the first program identifier including the ~~standardized~~ first content reference identifier for identifying the first piece of multimedia content, and the user action type representing an operation of skip, replay or slow play; and

using the first data protection attribute for specifying that information recorded in the

first user action item about the first user action is protected in the first user action history part.

16. (Canceled)

17. (Currently amended) The method for processing user history data as claimed in claim 15, wherein ~~the standardized first~~ each content reference identifier is a content reference ID (CRID) of a Content ID Forum (CIDF).

18. (Previously presented) The method for processing user history data as claimed in claim 15, wherein the second user action history part describes the aspect of the user's consumption type and includes data that represents a first consumption type indicating how the user consumed the first piece of multimedia content.

19. (Previously presented) The method for processing user history data as claimed in claim 18, wherein the first consumption type indicates a recording or a simple view of the first piece of multimedia content.

20. (Previously presented) The method for processing user history data as claimed in claim 15, wherein the first user action history part describes the aspect of the user's consumption behavior and the user action type represents a consumption behavior for the first piece of multimedia content.

21. (Previously presented) The method for processing user history data as claimed in claim 20, wherein the user action type indicates a selection from an action type group including operations of normal play, skip, replay, and slow play.

22. (Currently amended) A method implemented by an apparatus for processing user history data, the method comprising:

storing a hierarchical data structure for describing user history, the hierarchical data structure including a user information element and first and second user action history parts as respective first and second structural elements at the same level of the hierarchical data structure, the user information element including information to identify a user and the first and second user action history parts including respective first and second lists of user action items for describing respective first and second aspects of the user's multimedia consumption, wherein each user action item has a respective program identifier including a content reference identifier that identifies the consumed multimedia content and enables access to content related metadata that is not provided in the user history, and wherein the first user action history part has a first data protection attribute and the second user action history part has a second data protection attribute to specify whether information is protected in the first user action history part or in the second user action history part, respectively;

recording, in the first user action history part, a first user action item having a first program identifier and a user action type, the first program identifier including a standardized first content reference identifier that identifies a first piece of multimedia content, and the user action type representing a type of action related to consumption of the first piece of multimedia content, wherein the user action type represents an operation of skip, replay or slow play; and

assigning a protection value to the first data protection attribute to protect information in the recorded first user action item, the protection value specifying that all information recorded in the first user action history part is protected.

23. (Previously presented) The method for processing user history data according to claim 22, wherein the second user action history part describes the aspect of the user's consumption type and includes data that indicates a simple view or recording of the first piece of multimedia content.

24. (Previously presented) The method for processing user history data according to claim 22, wherein the first user action history part describes the aspect of the user's consumption behavior, and the user action type indicates a selection from an action type group including operations of normal play, skip, replay, and slow play.

25-30. (Canceled)

31. (Previously presented) The method of claim 15, wherein recording the first user action item in the first user action history part includes storing the first user action item in a portable medium.

32. (Previously presented) The method of claim 15, wherein the first data protection attribute specifies whether all information in the first user action history part is protected.

33. (Canceled)

34. (New) The method of claim 15, wherein storing the hierarchical data structure includes storing the hierarchical data structure in a smart card.

35. (New) The method of claim 22, wherein storing the hierarchical data structure includes storing the hierarchical data structure in a smart card.